

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-22. (Canceled)

23. (Currently amended) A method for identifying an interaction between a PDZ domain and determining an interaction profile for a PDZ Ligand protein (PL protein) comprising:

- (a) contacting at least one the PL protein to an array of at least 5 PDZ-containing domain polypeptides of different amino acid sequence, each located at a different predetermined site on the array; and
- (b) detecting binding of the at least one whether the PL protein interacts with to one or more of the PDZ- containing polypeptides domain polypeptide at each site of the array; and
- (c) determining an interaction profile for the PL protein from the interactions detected in step (b).

24. (Currently amended) The method of claim 23 claim 23, wherein the array comprises at least 25 different PDZ-containing domain polypeptides of different sequence, whereby an interaction profile between the PL protein and at least 25 different PDZ-domain polypeptides is determined. and detecting comprises detecting binding of the at least one PL protein to a plurality of the PDZ containing polypeptides.

25. (Currently amended) The method of claim 23 claim 23, wherein the method is repeated with one or more additional PL proteins, whereby an interaction profile for each of the additional PL proteins is determined.  
the array is contacted with a plurality of PL proteins; and

~~an interaction between one of the PDZ-containing polypeptides and more than one of the plurality of PL proteins is detected.~~

26-37. (Canceled)

38. (Currently amended) The method of ~~claim 23~~ claim 23, wherein the array comprises at least 40 PDZ-containing domain polypeptides of different amino acid sequence, whereby an interaction profile between the PL protein and at least 40 different PDZ-domain polypeptides is determined, and detecting comprises detecting binding of the at least one PL protein to a plurality of the PDZ-containing polypeptides.

39. (Currently amended) The method of ~~claim 38~~ claim 38, wherein binding interactions between the at least one PL protein to one or more of and the PDZ-containing domain polypeptides is detected by an enzyme-linked immunoabsorbent assay (ELISA).

40. (Currently amended) The method of ~~claim 23~~ claim 23, further comprising determining for each ~~complex formed~~ interaction between ~~one of the PL proteins the PL protein~~ and one of the PDZ-containing domain polypeptides whether there is a statistical difference between a signal representative of the ~~complex~~ interaction and a signal for a control, wherein only those ~~complexes~~ interactions in which there is a statistical difference are identified as involving an PDZ domain/PL interaction.

41. (Canceled)

42. (Currently amended) The method of ~~claim 23~~ claim 23, wherein each of the PDZ-containing domain polypeptides are immobilized in a well of a microtiter plate.

43-50. (Canceled)